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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
|-------------------|--------------------|----------------------|-------------------------|------------------|--|
| 10/712,426 | 11/13/2003 | Chang-Hyun Lee | 5649-1181 9949 | | |
| 20792 75 | 90 03/14/2005 | | EXAMINER | | |
| MYERS BIGE | EL SIBLEY & SAJOVE | HUYNH, ANDY | | | |
| PO BOX 37428 | | ART UNIT | PAPER NUMBER | | |
| RALEIGH, NC 27627 | | | 2818 | | |
| | | | DATE MAILED: 03/14/2005 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| - | | Applicat | on No | Applicant(s) | | | | |
|---|--|---|--|--|--------------|--|--|--|
| Office Action Summary | | | | LEE, CHANG-HYUN | | | | |
| | | 10/712,4 Examine | | Art Unit | | | | |
| | | | | 2818 | | | | |
| | The MAILING DATE of this commun | Andy Hu | | | dress | | | |
| Period fo | | ioation appeare on th | | | | | | |
| THE - Exter after - If the - If NO - Failu Any I | ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comn period for reply specified above is less than thirty (3 period for reply is specified above, the maximum st re to reply within the set or extended period for reply reply received by the Office later than three months a ed patent term adjustment. See 37 CFR 1.704(b). | CATION. of 37 CFR 1.136(a). In no enunication. 0) days, a reply within the statutory period will apply and wall, by statute, cause the ap | vent, however, may a reply be tim tutory minimum of thirty (30) days vill expire SIX (6) MONTHS from ofication to become ABANDONE | nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133). | mmunication. | | | |
| Status | | | | | | | | |
| 1) 🖂 | Responsive to communication(s) file | ed on <u>07 Feb</u> ruary 20 | <u>005</u> . | | | | | |
| • | This action is FINAL . 2b) This action is non-final. | | | | | | | |
| 3) | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | | |
| Dispositi | ion of Claims | | | | | | | |
| 5) | 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-20 are subject to restriction and/or election requirement. | | | | | | | |
| Applicati | ion Papers | | | | | | | |
| 10) | The specification is objected to by the The drawing(s) filed on is/are Applicant may not request that any objected to Replacement drawing sheet(s) including The oath or declaration is objected to | a) accepted or be ction to the drawing(s) the correction is requi | be held in abeyance. See red if the drawing(s) is ob | e 37 CFR 1.85(a). jected to. See 37 CF | | | | |
| Priority (| under 35 U.S.C. § 119 | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | |
| 2) Notice 3) Information | t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date | | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | ate | ı-152) | | | |

DETAILED ACTION

Response to Election and Amendment

In the Election/Restriction Response dated 02/07/2005, Applicant has elected the invention of Group I, claims 1-20, drawn to non-volatile memory devices and canceled claims 21-39 drawn to methods of making non-volatile memory devices without prejudice are acknowledged. Accordingly, claims 1-20 are currently pending in this application.

However, the invention of Group I, claims 1-20, also contains claims directed to the following patentably distinct species:

- a) Species I, claims 1-6: A non-volatile memory device comprises a plurality of conductive patterns.
- b) Species II, claims 7-20: A non-volatile memory device comprises a plurality of second active regions in the high voltage region and a plurality of third active regions in the low voltage region.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claims are generic.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Art Unit: 2818

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication on earlier communications from the examiner should be directed to Andy Huynh whose telephone number is (571) 272-1781. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM. The examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Ah

03/10/05

Andy Huynh

andy Muy Q

· Patent Examiner